

Technical Final Report**DE- SC0010023****8th International Symposium on Supramolecular & Macrocyclic Chemistry**

Overview. The major goals of the ISMSC-2013 project were to: 1) bring together scientists at all academic levels in the area of supramolecular chemistry with allied interests in macromolecular and supramolecular chemistry for the purpose of the exchange of ideas and results. Within this scope we also sought to highlight the work of scientists who apply the principles of supramolecular chemistry to catalysis. 2) To expose the broad supramolecular community to the work and accomplishments of promising young investigators (Assistant and Associate Professors) and thereby promote their career development.

Major Activities: The conference brought together 330 scientists from countries around the world, whose research encompass the breadth of the discipline of modern supramolecular chemistry. Forty-nine invited lectures (from 15 to 40 minutes) by leading scientists were presented in oral format to the ISMSC conference attendees. Graduate students, postdoctoral fellows and faculty members presented about 250 posters during the three poster sessions. Of the invited speakers, 17 countries are represented, 9 speakers were women, 4 were Assistant professors, and 6 students made oral presentations. The intellectual merits of these presentations constitute a major accomplishment of the activities of the grant. Many of the presentations could be grouped into some of the thrust areas that were targeted by the organizing committee for highlighting including complexity, molecular container assemblies, functional crystals, polymers and materials, supramolecular biology, surfaces and interfaces, and supramolecular catalysis. The conference featured a “Women in Science” networking hour.

Specific Objectives: *Student/Post-Doc Travel Grants.* Thanks to the support of the U.S. Department of Energy, we were able to make 21 competitive travel awards to students and post-docs who presented their research at ISMSC-8. The names and affiliations of the awardees are provided below:

Massimo Baroncini, Universita di Bologna, Italy
Jonathan Barnes, Northwestern Univ., USA
Parijat Borah, Nanyang University, Singapore

Marta Dal Molin, University of Padova, Italy
Jonathan Foster, University of Cambridge, UK
Mari Ikeda, Toho University, Japan
Youngho Jeong, Univ. of Massachusetts, USA
Semin Lee, Indiana University, USA
Moridi Negar, Ecole Polytec. Lausanne, France
Severin Schneebeli, Northwestern Univ., USA
Nathan Strutt, Northwestern Univ., USA
Hajime Shigemitsu, Osaka University, Japan
Tyler Simmons, Florida State Univ., USA
Manolis Tzirakis, Swiss Fed. Inst. Tech., Switz.
Wim Van Rossum, NIMS, Japan
Vedran Vukotic, Univ. of Windsor, Canada
Michelle Watt, University of Oregon, USA
Leah Witus, Northwestern University, USA
Philip Young, Osaka University, Japan
Yan Zhang, KTH Royal Institute Tech., Sweden

The funding also supported some of the registration costs for 5 junior faculty speakers. These faculty members were: Yan Zhou (Iowa State University), Ivan Aprahamian (Dartmouth), Ognjen Miljanic (University of Houston), Anne McNeil (University of Michigan), Jovica Badjic (Ohio State University).

Significant Results:

- 1) The intellectual merits made by the poster presentations and the oral presentations constitute a significant result of the project. Many of the results presented at the conference are now appearing as peer reviewed publications in the primary scientific literature. The presentations by the six sponsored young academics were excellent, well received, and I believe meet the goal of promoting their career development. The book of abstracts, which details the presentations made at ISMSC, is available online at: <http://www.indiana.edu/%7Eismsc8/>
- 2) The scope of poster and oral presentations at ISMSC encompassed the entire field of supramolecular chemistry and served to stimulate the discussion of cutting edge problems in the field. The project also supported the presentations by 5 young academics and served to promote their career development. The conference also served to mix together scientists for new collaborations.

- 3) A main accomplishment of the project was the presentations (poster and oral) of the conferees. Whether the presenter is graduate student, postdoc, assistant, associate, or full professor, the preparation of their talk involves further development / training of their scientific presentation skills. For the younger scientists, the exposure to the broad field provided networking opportunities, feedback on their ongoing work, and practice on their presentation abilities.
- 4) The results of the conference have been disseminated to the community in several ways. For example, 1) through the attendance of scientists at the conference, 2) by the distribution of the book of abstract in free to download from via the conference website (<http://www.indiana.edu/%7Eismsc8/>) and 3) from the subsequent publication of research projects presented at the conference in the form of peer reviewed journal articles in the primary scientific literature. For example, a special issue of the journal Supramolecular Chemistry was prepared based on submissions from scientists who presented at ISMSC.